

## DAFTAR PUSTAKA

- Abrams, C. S. (2005). *Intracellular signaling in platelets*. *Curr. Opin. Hematol.* 12, 401-405.
- Aini, N., Setiawan, B., & Sandra, F. (2008). *Biological Characteristic and Differentiation of Stem Cell: Focus on Mesenchymal Stem Cell*. (B. Setiawan, Ed.) *Cermin Dunia Kedokteran*, 35, 60.
- Akhurst, R. (2002). TGF-beta antagonists: why suppress a tumor suppressor. *J Clin Invest*, 109:1533–1536.
- Bethseda, (2015). In *stem Cell information Hematopoietic stem Cell*. United states. MD : National Institutes Of Health.
- Benjamin Lee (2009) Maintaining the self-renewal and multipotential capacity of progenitor cells from bone marrow in vitro to ensure efficacy in vivo, Tulane university
- Bhowmick, N., Ghiassi, M., Bakin, *et al.* (2001). Transforming growth factor-beta1 mediates epithelial to mesenchymal transdifferentiation through a RhoA-dependent mechanism. *Mol Biol Cell*, 12:27–36.
- Bieback, K., Hecker, A., Kocaömer, A., *et al.* (2009). Human alternatives to fetal bovine serum for the expansion of mesenchymalstromal cells from bone marrow. *Stem Cells* 27,2331-2341.
- Bongso A & Lee EH. 2005. *Stem Cells: From Bench to Bedside*. Singapore: World Scientific Publishing Co. Pte. Ltd.
- Brunner, D., Frank, J., Appl, H., *et al.* (2010). Serum-free cell culture: the serum-free media interactive online database. *ALTEX* 27, 53-62.
- Caprio M, Feve B, Claes A., *et al* (2007) Pivotal role of the mineralocorticoid receptor in corticosteroid-induced adipogenesis. *FASEB J* 21:2185–2194.
- Castracane, V. D., & Henson, M. C. (Eds.). (2006). *Leptin*. 280.
- Choy, L., & Derynck, R. (2003). *J Biol Chem*, 278:9609–9619.
- Choy, L., Skillington, J., & Derynck, R. (2000). Roles of autocrine TGF-beta receptor and Smad signaling in adipocyte differentiation. *J Cell Biol*, 149:667–682.
- Cryer, A., & Van, R. L. (Eds.). (2014). *New Perspective in Adipose Tissue: Structure, Function, and Development*. England: Butterworths.

- Cutler, C and Antin, J.H. (2011). Peripheral Blood stem cells for allogeneic transplantation: a review. *Stem cell*. 19, 108-117.
- Dominici, M., Le Blanc, K., Mueller,., *et al* (2006). Minimal Criteria for Defining Multipotent Mesenchymal Stromal Cell. The International Society for Cellular therapy Position Statement. NCBI, 1.
- Engel, M., McDonnell, M., Law, B., & Moses, H. (1999). Interdependent SMAD and JNK signaling in transforming growth factor-beta-mediated transcription. *J Biol Chem*, 274:37413–37420.
- Even, M., Sandusky, C., & Barnard, N. (2006). Serum-free hybridoma culture: ethical, scientific and safety considerations. *Trends Biotechnol*, 24:105–108.
- Fetal mesenchymal stem-cell engraftment in bone after in utero transplantation in a patient with severe osteogenesis imperfecta. Transplantation.*
- Fillmore CM, Kuperwasser C., 2008, *Human breast cancer cell lines contain stem-like cells that self-renew, give rise to phenotypically diverse progeny and survive chemotherapy.* *Breast Cancer Res*, (10):25.
- Fisher. (2014). Growth Comparison Studies Between FBS and Other Serum Products. *Fishersci*.
- Fjaere, E., Aune, U. L., Roen, K., *et al*. (2014). Indomethacin Treatment Prevents High Fat Diet-Induced Obesity and Insulin Resistance . *Journal of biological chemistry*.
- Freed W, Chen J, Bäckman C., *et al*. (2008). *Gene expression profile of neuronal progenitor cells derived from hESCs: activation of chromosome and comparison to human dopaminergic neurons.*
- Ghoniem, A. A., Acil., *et al*. (2015, June). Improved Adipogenic in Vitro Differentiation: Comparison of Different Adipogenic Cell Culture Media on Human Fat and Bone Stroma Cells for Fat Tissue Engineering. *Anatomy and Cell Biology* .
- Granner, D. K. Kerja Hormon & Transduksi Sinyal. In R. Murray, D. Granner, V. Rodwell, N. Wulandari, L. Randy, L. Dwijayanthi, Liena, F. Dany, & L. Y. Rahman (Eds.), *Biokimia Harper* (B. Pendit, Trans., 27 ed.). Jakarta: EGC.
- Gstraunthaler, G. (2003). Alternatives to the use of fetal bovine serum: serum-free cell culture. *ALTEX* 20, 275-281.
- Gstraunthaler, G. (2010). The Bologna Statement on Good Cell Culture Practice (GCCP) – 10 years later. *ALTEX* 27, *Spec. Issue*, 141-146.

- Guzman-Ayala M, Lee K, Mavrakis K., *et al.* (2009). *Graded Smad activation is converted directly into levels of target gene expression in embryonic stem cells.*
- Hagmann, S., Moradi, B., Frank, S., *et al.* (2013). Different Culture Media Affect Growth Characteristics, Surface Marker Distribution and Chondrogenic Differentiation of Human Bone Marrow-Derived Mesenchymal Stromal Cells. *BMC Musculoskeletal Disorder.*
- Halim, D., Murti, H., Sandra, F., *et al.* (2010). *Stem Cell: Dasar Teori dan Aplikasi Klinis.* Jakarta: Erlangga.
- Halvorsen YD, Franklin D, Bond AL., *et al.* Extracellular matrix mineralization and osteoblast gene expression by human adipose tissue-derived stromal cells. *Tissue Eng* 2001; 7(6):729-41.
- Hartsough, M., & Mulder, K. (1995). Transforming growth factor beta activation of p44mapk in proliferating cultures of epithelial cells. *J Biol Chem* , 270:7117–7124.
- Hartsough, M., & Mulder, K. (1995). Transforming growth factor beta activation of p44mapk in proliferating cultures of epithelial cells. *J Biol Chem*, 270:7117–7124.
- Heldin, C., Miyazono, K., & Ten, D. P. (1997). TGF-beta signalling from cell membrane to nucleus through SMAD proteins. *Nature*, 390:465–471.
- Heldin, C., Miyazono, K., & Ten, D. P. (1997). TGF-beta signalling from cell membrane to nucleus through SMAD proteins. *Nature* , 390:465–471.
- Jain, S., & Yadav, H. (2015). In vitro Adipocytes Differentiation . *NCBI* .
- Jiang Y, Jahagirdar BN, Reinhardt RL, *et al.* 2002. *Pluripotency of mesenchymal stem cells derived from adult bone marrow.*
- Jochems, C. E. A., van der Valk, J. B. F., Stafleu, F. R., *et al.* (2002). The use of fetal bovine serum: ethical or scientific problem? *ATLA* 30, 219-227.
- Kakudo, N., Shimotsuma, A., Kusumoto, K. (2007). Fibroblast growth factor-2 stimulates adipogenic differentiation of human adipose-derived stem cells. *Biochemical and Biophysical Research Communications*, 239-244.
- Kim JY, Kim DH, Kim JH, Lee D, Jeon HB, Kwon SJ, Kim SM, Yoo YJ, Lee EH, Choi SJ, Seo SW, Lee JI, Na DL, Yang YS, Oh W, Chang JW: Soluble intracellular adhesion molecule-1 secreted by human umbilical cord blood-derived mesenchymal stem cell reduces amyloid-beta plaques. *Cell Death Differ* 2012, 19:680–691.

- Klein, R., & Dumble, L. (1993). Transmission of Creutzfeldt-Jakob disease by blood transfusion. *Lancet*, 341(8847):768.
- Larson, Benjamin Lee, Ph.D. (2009) *Maintaining the self-renewal and multipotential capacity of progenitor cells from bone marrow in vitro to ensure efficacy in vivo*, Tulane university.
- Le Blanc K, Gotherstrom C, Ringden O, Hassan M, McMahon R, Horwitz E, Anneren G, Axelsson O, Nunn J, Ewald U, Norden-Lindeberg S, Jansson M, Dalton A, Astrom E and Westgren M. 2005.
- Ma, X.-L., Que, Y.-H., Kong, J., Liu, H.-Q., & Zhang, J.-S. (2009). Effect of Fetal Bovine Serum on the proliferation and Differentiation of Murine Corneal Epithelial Cells in vitro. *International Ophthalmological Journal*, 2, 298-301.
- Marr, R. A., Thomas, R. M., & Peterson, D. A. (2010). Insights Into Neurogenesis and Aging: Potential Therapy for Degenrative Disease. *NCBI*.
- Massagué, J., Seoane, J., & Wotton, D. ( 2005). Smad transcription factors. *Genes Dev*, 19:2783–2810.
- Moustakas, A., & Heldin, C. (2005). Non-Smad TGF-beta signals. *J Cell Sci*, 118:3573–3584.
- Morrison SJ, Kimble J. 2006. *Asymmetric and symmetric stem-cell divisions in development and cancer*. Nature.
- Morrison SJ, Kimble J. 2009. *Asymmetric and symmetric stem-cell divisions in development and cancer*. Nature.
- Navarrete, J. M., & Real, J. M. (2012). Adipocyte Differentiation. (M. Symonds, Ed.) *Adipose Tissue Biology* , 1-38.
- Niemala, S., Miettinen, S., Sarkanen, J. R., *et al.* (2008). Adipose Tissue and Adipocyte Differentiation: Molecular and Cellular Aspects and Tissue Engineering Applications. *Topics in Tissue Engineering*, 4, 1-26.
- Park, D. H. and Eve, D. J. (2009). Regenerative medicine: advances in new methods and technologies. *Med. Sci. Monit.* 15, RA233-251.
- Putra, A, 2012, *Molekuler Onkogenesis :Konsep genetik, Virus, Radiasi-Kimia, Mutasi Gen, Epigenetik dan Signalling*, Terbitan Pertama, Unissula Press, Semarang, 89-103.
- Salma, N., Xiao, H., & Imbalzano, A. N. (2005). Temporal recruitment of CCAAT/enhancer-binding proteins to early and late adipogenic promoters in vivo. *Journal of Molecular Endocrinology* , 1-8.

- Schroeder, J. A., Ruta, J. D., Gordon, J. S., *et al* (2012, June). The Phosphodiesterase Inhibitor Isobutylmethylxanthine Attenuates Behavioral Sensitization to Cocaine. *Behavioral Pharmacology*.
- Setiawan B. 2006. *Aplikasi terapeutik sel stem embrionik pada berbagai penyakit degeneratif. Cermin Dunia Kedokteran*.
- Shenghui H, Nakada D, and Morrison SJ. (2009). *Mechanisms of Stem Cell Self-Renewal Annu. Rev. Cell Dev. Biol.*
- Shi LL, Liu FP, Wang DW: Transplantation of human umbilical cord blood mesenchymal stem cells improves survival rates in a rat model of acute hepatic necrosis. *Am J Med Sci* 2011, 342:212–217.
- Sigma Aldrich. (2015). *Sigma Aldrich*. Retrieved September 3, 2015, from <http://www.sigmaaldrich.com>.
- Spreafico, A., Chellini, F., Frediani, B., *et al.* (2009). Biochemical investigation of the effects of human platelet releasates on human articular chondrocytes. *J. Cell. Biochem.* 108, 1153-1165
- Sparks, R., Allen, B., & Strauss, E. (1992). TGF-beta blocks early but not late differentiation-specific gene expression and morphologic differentiation of 3T3 T proadipocytes. *J Cell Physiol*, 150:568–577.
- Styner, M., Sen, B., Xie, Z., *et al* (2010, Nov). Indoethacin Promotes Adipogenesis of Mesenchymal Stem Cells Through a Cyclooxygenase Independent Mechanism. *J Cell Biochem*.
- Tang QQ, Gronborg M, Huang H., *et al* (2005) Sequential phosphorylation of C/EBP  $\beta$  by MAPK and GSK3  $\beta$  is required for adipogenesis. *Proc Natl Acad Sci USA* 102:9766–9771.
- Taupin, P. (2006). Derivation of embryonic stem cells for cellular therapy: challenges and new strategies. *Med. Sci. Monit.* 12, RA75-78.
- Thermofisher. (2016). *Thermofisher*. Retrieved September 5, 2016, from [www.thermofisher.com](http://www.thermofisher.com)
- Topics in Tissue Engineering, Vol. 4. Eds. N Ashammakhi, R Reis, & F Chiellini © 2008.
- Tsurutani, Y., Fujimoto, M., Takemoto, M., *et al.* (2011). The roles of transforming growth factor- $\beta$  and Smad3 signaling in adipocyte differentiation and obesity. *Biochem Biophys Res Commun*, 40.

- Wang, M.-K., Sun, H.-Q., Xiang, Y.-C., & Ji, F. (2012). Different roles of TGF- $\beta$  in the multi-lineage differentiation of stem cells. *World J Stem Cells*, 4(5): 28–34.
- Wilkes, M., Mitchell, H., Penheiter, S., Doré, J., & Suzu. (2005). Transforming growth factor-beta activation of phosphatidylinositol 3-kinase is independent of Smad2 and Smad3 and regulates fibroblast responses via p21-activated kinase-2. *Cancer Res*, 65:10431–10440.
- Yamashita YM, Yuan H, Cheng J., *et al.* (2010). Polarity in stemcell division. Asymmetric Stem Cell Division in Tissue Homeostasis. 1-15
- Yarmo MN, Landry A, Molgat AS., *et al.* (2009) Macrophage-conditioned medium inhibits differentiation-induced Rb phosphorylation in 3T3-L1 preadipocytes. *Exp Cell Res* 315:411–418.
- Yu, L., Hébert, M., & Zhang, Y. (2002). TGF-beta receptor-activated p38 MAP kinase mediates Smad-independent TGF-beta responses. *EMBO J*, 21:3749–3759.
- Yu, S. P., Wei, Z., & Wei, L. (2013). Preconditioning strategy in stem cell transplantation therapy. *NCBI*, 1.
- Zhao, P., Deng, Y., Wang, *et al.* (2013). Insulin-like growth factor 1 promotes the proliferation and adipogenesis of orbital adipose-derived stromal cells in thyroid-associated ophthalmopathy. *Exp Eye Res*, 65-73.